An investigation into \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Research Question**

How does \_\_\_\_(1)\_\_\_\_\_\_ affect \_\_(2)\_\_\_\_\_\_\_\_\_\_\_?

1. Independent Variable
2. Dependent Variable

**Background information**

What are you investigating?

Any useful information you can find about your research question.  
Include a diagram of how it works.  
Identify and describe at least 3 possible variables that could affect your experiment.

**Hypothesis**

I think that if\_\_\_(1)\_\_\_\_\_\_\_\_\_\_\_ then \_\_\_\_\_\_(2)\_\_\_\_\_\_\_\_\_… because\_\_\_\_\_\_\_\_\_\_\_

             1. *I*ndependent Variable changes this way.             2. Dependent Variable will change this way.

**Variables**

**Independent***-* I will change \_\_\_\_\_ by\_\_\_\_\_\_\_**Dependent***-* I will measure\_\_\_\_\_\_ in \_\_\_\_\_\_\_ using \_\_\_\_\_\_ **Controlled***-* I will control\_\_\_\_ by\_\_\_\_\_

*Give at least 3 control variables.*

**Materials**

**Method**

1. How to set up the material.  
2. Set up the first independent variable.  
3. How to run the experiment  
4. How to take the measurement of the dependent variable  
5. Repeating the measurement to get an average  
6. How to change the independent variable to repeat the experiment again.   
​7. What are the other values of the independent variable you are using when you repeat the experiment.

This part is for CRITERIA C

**Results**

Table, Graph, Calculations (if any)

**Conclusion**

State what your results show.

Describe the shape of the graph (if you have one)

Use numbers to describe the trend/pattern.

Compare your results to your hypothesis.

Explain your results with scientific knowledge.

**Evaluation**

Did you carry out the experiment accurately, how you know?

Did you make any errors and how?

Did you control the controlled variables well?

Give at least 3 ways you could you improve the method so that your experiment was more accurate. Explain why the changes would make the experiment better.

**References**